STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/522,106
Source: PCT
Date Processed by STIC: 2-2-05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

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http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

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1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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Revised 01/24/05

PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/522,106

DATE: 02/02/2005
TIME: 15:31:41

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\02022005\J522106.raw

```
      2 <110> APPLICANT: Kogel, Karl-Heinz
      3       Huckelhoven, Ralph
      4       Trujillo, Marco
      6 <120> TITLE OF INVENTION: Method for Obtaining a Pathogen Resistance in Plants
      8 <130> FILE REFERENCE: 532622010500
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/522,106
     11 <141> CURRENT FILING DATE: 2005-01-24
     13 <160> NUMBER OF SEQ ID NOS: 24
     14 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

     45 <210> SEQ ID NO: 2
     46 <211> LENGTH: 112
     47 <212> TYPE: PRT
     48 <213> ORGANISM: Hordeum vulgare
W--> 49 <400> SEQUENCE: 2
     50 Phe Lys Gly Ile Met Asn Glu Ile Ala Glu Leu Asp Gln Arg Asn Ile
     51   1               5                  10                  15
     52 Ile Glu Met His Asn Tyr Leu Thr Ser Val Tyr Glu Glu Gly Asp Ala
     53               20                  25                  30
     54 Arg Ser Ala Leu Ile Thr Met Leu Gln Ala Leu Asn His Ala Lys Asn
     55           35                  40                  45
E--> 56 Gly Val Asp Val Val Ser Xaa Thr Arg Val Arg Thr His Phe Ala Arg
     57       50                  55                  60
     58 Pro Asn Phe Lys Arg Val Leu Ser Lys Val Ala Ala Lys His Pro Tyr
     59  65                  70                  75                  80
     60 Ala Lys Ile Gly Val Phe Tyr Cys Gly Ala Pro Val Leu Ala Gln Glu
     61                  85                  90                  95
     62 Leu Ser Asn Leu Cys His Glu Phe Asn Gly Lys Cys Thr Thr Lys Phe
     63              100                 105                 110
   2181 <210> SEQ ID NO: 16
   2182 <211> LENGTH: 939
   2183 <212> TYPE: PRT
   2184 <213> ORGANISM: Nicotiana tabacum
W--> 2185 <400> SEQUENCE: 16
   2186 Met Gln Asn Ser Glu Asn His His Pro His His Gln His His His Ser
   2187   1               5                  10                  15
   2188 Asp Thr Glu Ile Ile Gly Asn Asp Arg Ala Ser Tyr Ser Gly Pro Leu
   2189              20                  25                  30
   2190 Ser Gly Pro Leu Asn Lys Arg Gly Gly Lys Lys Ser Ala Arg Phe Asn
   2191          35                  40                  45
```

p/s explain "Xaa" location. Does Not Comply Corrected Diskette Needed (pg. 1, 3)

See error explanation on page 5.

RAW SEQUENCE LISTING DATE: 02/02/2005
PATENT APPLICATION: US/10/522,106 TIME: 15:31:42

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\02022005\J522106.raw

```
2192 Ile Pro Glu Ser Thr Asp Ile Gly Thr Ser Val Gly Thr Gly Gly Lys
2193      50                  55                  60
2194 Ser Asn Asp Asp Ala Tyr Val Glu Ile Thr Leu Asp Val Arg Glu Asp
2195  65                  70                  75                  80
2196 Ser Val Ala Val His Ser Val Lys Thr Ala Gly Gly Asp Asp Val Glu
2197                  85                  90                  95
2198 Asp Pro Glu Leu Ala Leu Leu Ala Lys Gly Leu Glu Lys Lys Ser Thr
2199             100                 105                 110
2200 Leu Gly Ser Ser Leu Val Arg Asn Ala Ser Ser Arg Ile Arg Gln Val
2201         115                 120                 125
2202 Ser Gln Glu Leu Arg Arg Leu Ala Ser Leu Asn Lys Arg Pro Ile Pro
2203     130                 135                 140
2204 Thr Gly Arg Phe Asp Arg Asn Lys Ser Ala Ala Ala His Ala Leu Lys
2205 145                 150                 155                 160
2206 Gly Leu Lys Phe Ile Ser Lys Thr Asp Gly Gly Ala Gly Trp Ala Ala
2207                 165                 170                 175
2208 Val Glu Lys Arg Phe Asp Glu Ile Thr Ala Ser Thr Thr Gly Leu Leu
2209             180                 185                 190
2210 Pro Arg Ala Lys Phe Gly Glu Cys Ile Gly Met Asn Lys Glu Ser Lys
2211         195                 200                 205
2212 Glu Phe Ala Val Glu Leu Tyr Asp Ala Leu Ala Arg Arg Arg Asn Ile
2213     210                 215                 220
2214 Thr Thr Asp Ser Ile Asn Lys Ala Gln Leu Lys Glu Phe Trp Asp Gln
2215 225                 230                 235                 240
2216 Val Ala Asp Gln Ser Phe Asp Ser Arg Leu Gln Thr Phe Phe Asp Met
2217                 245                 250                 255
2218 Val Asp Lys Asp Ala Asp Gly Arg Ile Thr Glu Glu Glu Val Arg Glu
2219             260                 265                 270
2220 Ile Ile Gly Leu Ser Ala Ser Ala Asn Arg Leu Ser Thr Ile Gln Lys
2221         275                 280                 285
2222 Gln Ala Asp Glu Tyr Ala Ala Met Ile Met Glu Glu Leu Asp Pro Asn
2223     290                 295                 300
2224 Asn Leu Gly Tyr Ile Met Ile Glu Asn Leu Glu Met Leu Leu Leu Gln
2225 305                 310                 315                 320
2226 Ala Pro Asn Gln Ser Val Gln Arg Gly Gly Glu Ser Arg Asn Leu Ser
2227                 325                 330                 335
2228 Gln Met Leu Ser Gln Lys Leu Lys His Thr Gln Glu Arg Asn Pro Ile
2229             340                 345                 350
2230 Val Arg Trp Tyr Lys Ser Phe Met Tyr Phe Leu Leu Asp Asn Trp Gln
2231         355                 360                 365
2232 Arg Val Trp Val Leu Leu Leu Trp Ile Gly Ile Met Ala Gly Leu Phe
2233     370                 375                 380
2234 Thr Trp Lys Tyr Ile Gln Tyr Lys Glu Lys Ala Ala Tyr Lys Val Met
2235 385                 390                 395                 400
2236 Gly Pro Cys Val Cys Phe Ala Lys Gly Ala Ala Glu Thr Leu Lys Leu
2237                 405                 410                 415
2238 Asn Met Ala Ile Ile Leu Phe Pro Val Cys Arg Asn Thr Ile Thr Trp
2239             420                 425                 430
2240 Leu Arg Asn Lys Thr Arg Leu Gly Ala Ala Val Pro Phe Asp Asp Asn
```

RAW SEQUENCE LISTING DATE: 02/02/2005
PATENT APPLICATION: US/10/522,106 TIME: 15:31:42

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\02022005\J522106.raw

```
2241          435                 440                 445
2242 Leu Asn Phe His Lys Val Ile Ala Val Ala Ile Ala Leu Gly Val Gly
2243     450                 455                 460
2244 Ile His Gly Leu Ser His Leu Thr Cys Asp Phe Pro Arg Leu Leu Asn
2245 465                 470                 475                 480
2246 Ala Ser Glu Glu Glu Tyr Glu Pro Met Lys Tyr Tyr Phe Gly Asp Gln
2247                 485                 490                 495
2248 Pro Glu Ser Tyr Trp Trp Phe Ile Lys Gly Val Glu Gly Val Thr Gly
2249             500                 505                 510
2250 Ile Ile Met Val Val Leu Met Ala Ile Ala Phe Thr Leu Ala Thr Pro
2251         515                 520                 525
2252 Trp Phe Arg Arg Asn Arg Val Ser Leu Pro Lys Pro Phe His Lys Leu
2253     530                 535                 540
E--> 2254 Thr Gly Xaa Asn Ala Phe Trp Tyr Ser His His Leu Phe Val Ile Val
2255 545                 550                 555                 560
2256 Tyr Thr Leu Phe Ile Val His Gly Glu Lys Leu Tyr Ile Thr Lys Asp
2257                 565                 570                 575
2258 Trp Tyr Lys Arg Thr Asp Met Asp Val Leu Leu Thr Ile Pro Ile Ile
2259             580                 585                 590
2260 Leu Tyr Ala Ser Glu Arg Leu Ile Arg Ala Phe Arg Ser Ser Ile Lys
2261         595                 600                 605
2262 Ala Val Lys Ile Leu Lys Val Ala Val Tyr Pro Gly Asn Val Leu Ala
2263     610                 615                 620
2264 Leu His Met Ser Lys Pro Gln Gly Tyr Lys Tyr Lys Ser Gly Gln Tyr
2265 625                 630                 635                 640
2266 Met Phe Val Asn Cys Ala Ala Val Ser Pro Phe Glu Trp His Pro Phe
2267                 645                 650                 655
2268 Ser Ile Thr Ser Ala Pro Gly Asp Asp Tyr Leu Ser Val His Ile Arg
2269             660                 665                 670
2270 Thr Leu Gly Asp Trp Thr Arg Gln Leu Lys Thr Val Phe Ser Glu Val
2271         675                 680                 685
2272 Cys Gln Pro Pro Pro Asn Gly Lys Ser Gly Leu Leu Arg Ala Asp Tyr
2273     690                 695                 700
2274 Leu Gln Gly Glu Asn Asn Pro Asn Phe Pro Arg Val Leu Ile Asp Gly
2275 705                 710                 715                 720
2276 Pro Tyr Gly Ala Pro Ala Gln Asp Tyr Lys Lys Tyr Glu Val Val Leu
2277                 725                 730                 735
2278 Leu Val Gly Leu Gly Ile Gly Ala Thr Pro Met Ile Ser Ile Val Lys
2279             740                 745                 750
2280 Asp Ile Val Asn Asn Met Lys Ala Met Asp Glu Glu Glu Asn Ser Leu
2281         755                 760                 765
2282 Glu Asp Gly His Asn Asn Asn Met Ala Pro Asn Ser Ser Pro Asn Ile
2283     770                 775                 780
2284 Ala Lys Asn Lys Gly Asn Lys Ser Gly Ser Ala Ser Gly Gly Asn Asn
2285 785                 790                 795                 800
2286 Phe Asn Thr Arg Arg Ala Tyr Phe Tyr Trp Val Thr Arg Glu Gln Gly
2287                 805                 810                 815
2288 Ser Phe Asp Trp Phe Lys Gly Ile Met Asn Glu Ala Ala Glu Met Asp
2289             820                 825                 830
```

p/s explain Xaa location.

p/s see error explanation on page 5.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING DATE: 02/02/2005
PATENT APPLICATION: US/10/522,106 TIME: 15:31:42

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\02022005\J522106.raw

```
2290 His Lys Gly Val Ile Glu Met His Asn Tyr Cys Thr Ser Val Tyr Glu
2291         835                 840                 845
2292 Glu Gly Asp Ala Arg Ser Ala Leu Ile Thr Met Leu Gln Ser Leu His
2293     850                 855                 860
2294 His Ala Lys Asn Gly Val Asp Ile Val Ser Gly Thr Arg Val Lys Ser
2295 865                 870                 875                 880
2296 His Phe Ala Lys Pro Asn Trp Arg Asn Val Tyr Lys Arg Ile Ala Leu
2297                 885                 890                 895
2298 Asn His Pro Glu Ala Lys Val Gly Val Phe Tyr Cys Gly Ala Pro Ala
2299             900                 905                 910
2300 Leu Thr Lys Glu Leu Arg Gln His Ala Leu Asp Phe Ser His Lys Thr
2301         915                 920                 925
2302 Ser Thr Lys Phe Asp Phe His Lys Glu Asn Phe
2303     930                 935
```

VARIABLE LOCATION SUMMARY DATE: 02/02/2005
PATENT APPLICATION: US/10/522,106 TIME: 15:31:43

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\02022005\J522106.raw,

Use of n's or Xaa's(NEW RULES): Error Explanation: N
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:1; Xaa Pos. 55
Seq#:2; Xaa Pos. 55
Seq#:15; N Pos. 1952
Seq#:15; Xaa Pos. 547
Seq#:16; Xaa Pos. 547

VERIFICATION SUMMARY DATE: 02/02/2005
PATENT APPLICATION: US/10/522,106 TIME: 15:31:43

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\02022005\J522106.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:283 W: Missing Blank Line separator, <210> field identifier
L:19 M:283 W: Missing Blank Line separator, <220> field identifier
L:23 M:283 W: Missing Blank Line separator, <400> field identifier
L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:193
L:49 M:283 W: Missing Blank Line separator, <400> field identifier
L:56 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
L:69 M:283 W: Missing Blank Line separator, <220> field identifier
L:73 M:283 W: Missing Blank Line separator, <400> field identifier
L:255 M:283 W: Missing Blank Line separator, <400> field identifier
L:379 M:283 W: Missing Blank Line separator, <220> field identifier
L:383 M:283 W: Missing Blank Line separator, <400> field identifier
L:570 M:283 W: Missing Blank Line separator, <400> field identifier
L:698 M:283 W: Missing Blank Line separator, <220> field identifier
L:702 M:283 W: Missing Blank Line separator, <400> field identifier
L:904 M:283 W: Missing Blank Line separator, <400> field identifier
L:1032 M:283 W: Missing Blank Line separator, <220> field identifier
L:1036 M:283 W: Missing Blank Line separator, <400> field identifier
L:1234 M:283 W: Missing Blank Line separator, <400> field identifier
L:1364 M:283 W: Missing Blank Line separator, <220> field identifier
L:1368 M:283 W: Missing Blank Line separator, <400> field identifier
L:1556 M:283 W: Missing Blank Line separator, <400> field identifier
L:1680 M:283 W: Missing Blank Line separator, <220> field identifier
L:1684 M:283 W: Missing Blank Line separator, <400> field identifier
L:1868 M:283 W: Missing Blank Line separator, <400> field identifier
L:1990 M:283 W: Missing Blank Line separator, <220> field identifier
L:1994 M:283 W: Missing Blank Line separator, <400> field identifier
L:2102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:1935
M:341 Repeated in SeqNo=15
L:2185 M:283 W: Missing Blank Line separator, <400> field identifier
L:2254 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16
L:2309 M:283 W: Missing Blank Line separator, <220> field identifier
L:2313 M:283 W: Missing Blank Line separator, <400> field identifier
L:2477 M:283 W: Missing Blank Line separator, <400> field identifier
L:2589 M:283 W: Missing Blank Line separator, <220> field identifier
L:2593 M:283 W: Missing Blank Line separator, <400> field identifier
L:2763 M:283 W: Missing Blank Line separator, <400> field identifier
L:2879 M:283 W: Missing Blank Line separator, <220> field identifier
L:2883 M:283 W: Missing Blank Line separator, <400> field identifier
L:3059 M:283 W: Missing Blank Line separator, <400> field identifier
L:3179 M:283 W: Missing Blank Line separator, <220> field identifier
L:3182 M:283 W: Missing Blank Line separator, <400> field identifier
L:3190 M:283 W: Missing Blank Line separator, <220> field identifier
L:3193 M:283 W: Missing Blank Line separator, <400> field identifier